

Product Name: RS 1

Catalog No.: 5810

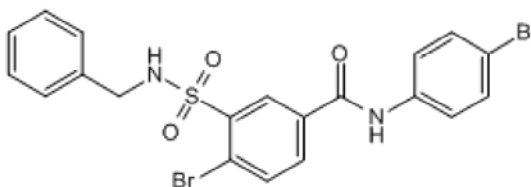
Batch No.: 1

CAS Number: 312756-74-4

IUPAC Name: 4-Bromo-N-(4-bromophenyl)-3-[[[(phenylmethyl)amino]sulfonyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₆Br₂N₂O₃S
Batch Molecular Weight: 524.23
Physical Appearance: Brown solid
Solubility: DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	45.82	3.08	5.34
Found	45.82	2.98	5.24

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: RS 1

Catalog No.: 5810

Batch No.: 1

CAS Number: 312756-74-4

IUPAC Name: 4-Bromo-N-(4-bromophenyl)-3-[[[(phenylmethyl)amino]sulfonyl]benzamide

Description:

High affinity RAD51 activator (K_d range = 48-107 nM, value depends on cofactors present). Enhances homologous recombination activity of hRAD51. Enhances homology-directed repair ~2 to 5-fold and increases CRISPR-mediated knock-in efficiencies in vitro and in vivo.

Physical and Chemical Properties:

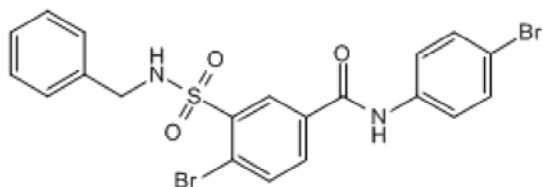
Batch Molecular Formula: $C_{20}H_{16}Br_2N_2O_3S$

Batch Molecular Weight: 524.23

Physical Appearance: Brown solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Song et al (2016) RS-1 enhances CRISPR/Cas9- and TALEN-mediated knock-in efficiency. *Nat. Commun.* **7** 10548. PMID: 26817820.

Jayathilaka et al (2008) A chemical compound that stimulates the human homologous recombination protein RAD51. *Proc.Natl.Acad.Sci.U.S.A.* **105** 15848. PMID: 18840682.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956